IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for growing carbon nanotubes on a substrate by a hot-filament assisted chemical vapor deposition method, comprising the step of previously depositing on the substrate a titanium and cobalt bilayer such that:

the thickness of the titanium layer ranges between 0.5 and 5 nm;

the thickness of the cobalt layer ranges between 0.25 and 10 nm; and

the thickness of the cobalt layer ranges between half and twice the thickness

of the titanium layer.

- 2. (Original) The method of claim 1, wherein the titanium layer is formed on the cobalt layer.
- 3. (Previously Presented) The method of claim 1, wherein the substrate is made of silicon coated with oxide.
- 4. (Previously Presented) The method of claim 1, wherein the substrate comprises at least one tip, whereby a nanotube grows by moving away from the substrate from the top of the tip and other nanotubes grow by spreading against the substrate.

- 5. (Original) The method of claim 1, comprising the step of selecting the sum of the titanium and cobalt thicknesses according to the diameter and to the structure wanted for the nanotubes.
- 6. (Currently Amended) The method of claim 1, wherein the bilayer is of cobalt/titanium type and is formed on a thick titanium layer thicker than 10 nm.
- 7. (Previously Presented) The method of claim 1, wherein the bilayer is of titanium/cobalt type and is coated with a titanium layer of a thickness greater than 20 nm, whereby the nanotubes only grow from the lateral surface of the bilayer.
- 8. (Previously Presented) A substrate supporting carbon nanotubes coated with a titanium and cobalt bilayer such that:

the thickness of the titanium layer ranges between 0.5 and 5 nm;
the thickness of the cobalt layer ranges between 0.25 and 10 nm; and
the thickness of the cobalt layer ranges between half and twice the
thickness of the titanium layer.

9. (Previously Presented) The substrate of claim 8, further comprising microtips, whereby a single carbon nanotube or a single bundle of nanotubes grows from the tip of each microtip and the growth of other nanotubes is performed by spreading on the substrate.